|   | Index of Claims |               |                    |              |          |          |          |              |              |          |           |                 |          | Application No. 09/847,382 |  |         |                     |          |          |            |          |           |    | Applicant(s)  CONRAD ET AL. |            |                 |          |         |              |         |              |                 |                 |  |
|---|-----------------|---------------|--------------------|--------------|----------|----------|----------|--------------|--------------|----------|-----------|-----------------|----------|----------------------------|--|---------|---------------------|----------|----------|------------|----------|-----------|----|-----------------------------|------------|-----------------|----------|---------|--------------|---------|--------------|-----------------|-----------------|--|
|   |                 |               |                    |              |          |          |          |              |              |          |           |                 |          |                            |  |         |                     |          |          |            |          |           |    |                             |            |                 |          |         |              |         |              |                 |                 |  |
|   |                 |               |                    |              |          |          |          |              |              |          |           |                 |          |                            | Examiner   |         |                     |          |          |            |          |           |    |                             | Art Unit   |                 |          |         |              |         |              |                 |                 |  |
|   |                 |               |                    |              |          |          |          |              |              |          |           |                 |          | •                          |  |         |                     |          |          |            |          |           |    |                             |            |                 |          |         |              |         |              |                 |                 |  |
|   |                 | 110011        | 8811               | 1011         | si iii   |          | 111 18   | 468          | 11181        | 18118    | 11.81     | 881             |          |                            |  | L       | Benjamin R Bruckart |          |          |            |          |           |    |                             |            | 2155            |          |         |              |         |              |                 |                 |  |
|   |                 |               |                    |              |          |          |          |              |              |          |           |                 |          |                            |  |         |                     |          |          |            |          |           |    |                             |            |                 |          |         |              |         |              |                 |                 |  |
|   |                 |               | √                  | R            | eje      | cte      | ы        |              |              | 1        |           | (Through numera |          |                            |  | eral)   | al)                 |          |          | Non-Electe |          |           | ed |                             |            |                 | Αp       | pea     | al           |         |              |                 |                 |  |
|   |                 |               | _                  |              |          |          |          |              |              |          | Cancelled |                 |          |                            |  |         |                     | N        |          |            |          |           |    |                             | Α          |                 |          |         |              |         |              |                 |                 |  |
|   |                 |               | =                  | Δ            | llo      | w.a      | а        |              |              | ÷        |           |                 | R        | stri                       | hata   |         |                     |          | ı        | Ir         | iter     | ford      | on | ce                          |            | 0               |          | Obj     | ect          | ha      |              |                 |                 |  |
|   |                 |               |                    |              |          |          |          |              |              | Ŀ        |           |                 |          |                            |  |         |                     |          |          |            |          |           |    |                             |            |                 |          |         |              |         |              |                 |                 |  |
| Г |                 |               | Date               |              |          |          |          |              |              |          | _         |                 | Claim    |                            |  | Det     |                     |          |          |            |          | - CI-i-   | 1  |                             | Date       |                 |          |         |              | $\neg$  |              |                 |                 |  |
| - | Cla             | aim           |                    |              |          |          | Jate     | ∍<br>        |              |          | _         |                 | _ CI     | 1                          | $\vdash$   | Т-      | ┰                   | Date     | •<br>    | $\neg$     | Т        | $\dashv$  | -  | Clair                       |            | Т               | 1        | T       | Ta           | T       | Ι - Ι        |                 | $\dashv$        |  |
|   | Final           | Original      | 60-27-01           |              |          |          |          |              |              |          |           |                 | Final    | Original                   |  |         |                     |          |          | ŀ          | - 1      |           |    | Final                       | Original   |                 |          |         |              | 1       | П            |                 | ļ               |  |
|   | ίĒ              | Orig          | -12                |              |          |          |          |              |              |          |           |                 | ιĒ       | Ö                          |  |         |                     |          |          |            | -        |           |    | ن <u>ت</u>                  | Q.         |                 |          |         |              |         |              |                 |                 |  |
| - |                 | <u>(1)</u>    | 2                  |              |          |          |          | _            |              |          | _         |                 |          | 51                         |  | +       | +                   | $\dashv$ |          | $\dashv$   | -        | -         | -  |                             | 101        | $\vdash$        | +        | +       | -            | 1       |              |                 | ᅱ               |  |
| - |                 | 2             | Ť                  |              |          |          |          |              |              |          |           |                 |          | 52                         | 1  | +       | $\dagger$           |          |          | $\dashv$   | 十        | -         | ŀ  |                             | 102        | $\dashv$        | $^{+}$   | +       | $\dagger$    | 1       | $\vdash$     | _               | $\dashv$        |  |
|   |                 | 3             | $\prod$            |              |          |          |          |              |              |          |           |                 |          | 53                         |  |         |                     |          |          |            | $\Box$   |           | [  |                             | 103        |                 |          |         |              |         |              |                 |                 |  |
| - |                 | <u>4</u><br>5 | #                  |              |          | H        | $\vdash$ | Щ            |              | -        |           |                 |          | 54<br>55                   | -  | +       | +                   | -        |          | $\dashv$   | $\dashv$ | 4         | -  |                             | 104<br>105 | $\vdash \vdash$ | +        | +       | +            | +       | $\vdash$     |                 | $\dashv$        |  |
| ŀ |                 | 6             | ╫                  |              |          |          |          |              |              |          |           |                 |          | 56                         | <del>                                     </del>                           | +-      | +-                  |          |          |            | $\dashv$ | $\dashv$  | ŀ  |                             | 106        | $\dashv$        | +        | +       | +            | -       | $\vdash$     | $\dashv$        | $\dashv$        |  |
|   |                 | 7             |                    |              |          |          |          |              |              |          |           |                 |          | 57                         |  | 工       |                     |          |          |            |          | $\Box$    | ļ  |                             | 107        |                 | $\perp$  |         | I            |         |              |                 |                 |  |
| - |                 | 8             | $oxed{\sqcup}$     |              |          |          |          | _            | _            |          | _         |                 |          | 58<br>59                   |  | ┿.      | +-                  | .—       |          |            | -        | - :       |    |                             | 108<br>109 | $\vdash$        |          | -       | +            | +       | Н            | $\dashv$        |                 |  |
| - |                 | 9<br>10       | $\dashv$           |              |          |          |          |              |              | -        | _         |                 |          | 60                         |  | -       | +                   |          |          | _          | -        | $\dashv$  | ŀ  |                             | 110        | -               | +        | +       | +            | ╁       | $\vdash$     | -               |                 |  |
|   |                 | 11            | 1                  |              |          |          |          |              |              |          |           |                 |          | 61                         |  |         |                     |          |          |            |          |           | t  |                             | 111        |                 |          |         |              |         |              |                 |                 |  |
| [ |                 | 12            | J                  | 1            |          |          |          |              |              |          |           |                 |          | 62                         |  | $\perp$ | -                   |          |          |            |          | 4         | -  |                             | 112        |                 |          | +       | $\perp$      | ┿       | -            |                 | _               |  |
| - |                 | 13<br>(14)    | \\ \sigma_{\sigma} | _            |          |          |          |              |              |          | -         |                 |          | 63<br>64                   | ╁╼┼  | +       | +                   |          | -        |            | $\dashv$ | $\dashv$  | -  |                             | 113<br>114 |                 | -+       | +       | +            | ╁       | H            | $\dashv$        | $\dashv$        |  |
| ŀ |                 | 15            | Ī                  |              |          |          |          |              |              |          |           |                 |          | 65                         |  |         | $\perp$             |          |          |            |          |           |    |                             | 115        |                 |          |         |              |         |              |                 |                 |  |
|   |                 | (f)           | V                  |              |          |          |          |              |              |          |           |                 |          | 66                         |  | _       |                     |          |          |            |          | $\exists$ | -  |                             | 116        |                 | _        | 4       | +            | $\bot$  |              |                 |                 |  |
| - |                 | 18            | \\ \tag{\tau}      |              |          | _        |          |              | _            |          |           |                 |          | 67<br>68                   | $\vdash$   |         | +-                  |          | Н        |            | $\dashv$ | $\dashv$  | -  |                             | 117<br>118 | $\vdash$        | $\dashv$ | +       |              | +       | H            |                 |                 |  |
| f |                 | 19            |                    |              |          |          |          |              |              |          |           |                 |          | 69                         |  |         | $\top$              |          |          |            |          |           |    |                             | 119        |                 |          |         |              |         |              |                 |                 |  |
|   |                 | 20            | V                  |              |          |          |          |              |              |          |           |                 |          | 70                         | $\Box$   |         |                     |          |          |            | 4        | _         |    |                             | 120        |                 | $\perp$  | $\perp$ | _            | ╀-      |              |                 |                 |  |
| - |                 | 21<br>22      | -                  |              | _        |          |          |              |              |          |           |                 |          | 71<br>72                   | $\vdash$   | +       | +                   | _        | _        |            | $\dashv$ | -         |    |                             | 121<br>122 | $\vdash$        | +        | +       | +            | +       | $\vdash$     | $\vdash$        | $\dashv$        |  |
|   |                 | 23            | $\vdash$           |              |          |          | $\vdash$ |              |              |          |           |                 |          | 73                         | ++   | $\top$  | t                   |          | Н        |            |          | -         |    | 1                           | 123        |                 | $\perp$  |         |              |         |              |                 |                 |  |
|   |                 | 24            |                    |              |          |          |          |              |              |          |           |                 |          | 74                         |  |         |                     |          |          |            | $\Box$   |           |    |                             | 124        |                 | $\bot$   | $\perp$ |              |         |              |                 |                 |  |
| - |                 | 25<br>26      | -                  | <u> </u>     |          | _        |          |              | -            |          |           |                 |          | 75<br>76                   | <del>                                     </del>                           | +       | +                   |          | Н        |            | $\dashv$ | $\dashv$  |    |                             | 125<br>126 |                 |          | +       | +            | +       | -            | $\vdash$        | $\dashv$        |  |
| ŀ |                 | 27            |                    |              | _        |          |          | $\vdash$     | -            |          |           |                 |          | 77                         | -  | +       | +                   |          |          |            | $\dashv$ | $\exists$ |    | -   -                       | 127        | $\vdash$        | $\vdash$ | +       | $\top$       | 十       | -            |                 | $\exists$       |  |
|   |                 | 28            |                    |              |          |          |          |              |              |          |           |                 |          | 78                         |  |         | 1_                  |          |          |            |          |           |    |                             | 128        | П               |          |         | T            |         |              |                 |                 |  |
| - |                 | 29<br>30      | <u> </u>           | <b> </b>     |          |          |          | _            |              | <u> </u> | ļ         |                 |          | 79<br>80                   | $\vdash$   | +       | +                   | _        | $\vdash$ | Н          | $\dashv$ | -         |    |                             | 129<br>130 | $\vdash$        | +        | +       | +            | +       | $\vdash$     | $\vdash$        | $\vdash$        |  |
| ŀ |                 | 31            | +                  | <del> </del> |          |          | H        | $\vdash$     | <del> </del> | -        |           |                 |          | 81                         | $\vdash$   | +       | +                   | $\vdash$ | Н        | $\forall$  | $\dashv$ | -         |    |                             | 131        |                 | $\perp$  | +       | $^{\dagger}$ | 1       | L            |                 |                 |  |
|   |                 | 32            |                    |              |          |          |          |              |              |          |           |                 |          | 82                         |  |         | $oxed{\Box}$        |          |          |            |          |           |    |                             | 132        |                 | $\bot$   | T       | I            | 1       |              | П               |                 |  |
|   |                 | 33            | <u> </u>           | _            |          | <u> </u> | -        | <u> </u>     | ļ            | _        |           |                 |          | 83<br>84                   | ┼-┼-   | +       | -                   |          | Н        |            | $\dashv$ | -         | }  |                             | 133<br>134 | $\vdash$        |          | +       | +            | +       | $\vdash$     | $\vdash \vdash$ | Н               |  |
| } |                 | 34<br>35      | $\vdash$           |              | $\vdash$ |          | -        | <del> </del> |              | -        | -         |                 |          | 85                         | ++   | +       | +                   |          | Н        | H          | $\dashv$ | $\dashv$  | ŀ  |                             | 135        | $\vdash \vdash$ | $\dashv$ | +       | +            | 十       | <del> </del> | -               | Н               |  |
| Į |                 | 36            |                    |              |          |          |          |              |              |          |           |                 |          | 86                         | 口  |         |                     |          |          |            |          |           |    |                             | 136        |                 |          |         | $\downarrow$ | $\perp$ |              |                 |                 |  |
| ļ |                 | 37            |                    |              |          | -        | <u> </u> | ļ            | _            | _        | _         |                 |          | 87<br>88                   | $\vdash$   | +       | -                   |          | <u> </u> | Щ          |          | -         |    |                             | 137<br>138 |                 | +        | +       | +            | +       | -            | $\vdash$        | Н               |  |
| } |                 | 38<br>39      | $\vdash$           | $\vdash$     |          | -        | -        | -            | -            | -        | $\vdash$  |                 |          | 88                         | ++   | +       | +                   |          | -        | -          | $\dashv$ | $\dashv$  | ł  |                             | 138        | $\vdash$        | +        | +       | +-           | +-      |              | Н               | $\vdash \vdash$ |  |
| ŀ |                 | 40            |                    |              |          |          |          |              |              |          |           |                 |          | 90                         |  |         |                     |          |          |            |          |           |    |                             | 140        |                 | $\perp$  |         | $\top$       |         |              |                 |                 |  |
| - |                 | 41            |                    |              |          |          |          |              |              |          |           |                 |          | 91                         | $\!$ | $\bot$  | _                   |          |          |            |          | _         |    |                             | 141        | <u> </u>        | -        | +       | +            | +       | <del> </del> | $\vdash$        | Ш               |  |
| } |                 | 42<br>43      | $\vdash$           | ⊢            | $\vdash$ |          |          | -            | -            | -        | -         | 1               | $\vdash$ | 92<br>93                   | +-+  | +       | +                   |          |          | -          | $\dashv$ | $\dashv$  |    |                             | 142<br>143 | $\vdash$        | +        | +       | +            | +       | <del> </del> | -               |                 |  |
| ŀ |                 | 44            |                    |              |          |          |          |              |              |          |           |                 |          | 94                         | 廿  | 士       |                     |          |          |            |          |           |    |                             | 144        |                 |          |         |              |         |              |                 |                 |  |
| [ |                 | 45            |                    |              |          |          |          |              |              |          |           |                 |          | 95                         | П  |         | 1                   |          |          |            |          | _         |    |                             | 145        |                 | $\bot$   | _[_     | 4            | 4       | $\vdash$     |                 |                 |  |
| } |                 | 46<br>47      | -                  |              | -        | H        | ļ        | -            | -            | -        | -         |                 | -        | 96<br>97                   | ++   | - -     | +                   | $\vdash$ | $\vdash$ | -          |          | -         |    |                             | 146<br>147 | $\vdash \vdash$ | +        | +       | +            | +       | +-           | Н               | $\vdash \vdash$ |  |
| ļ |                 | 48            | r                  |              |          |          | E        |              |              |          |           |                 |          | 98                         | 廿  | 士       |                     |          |          |            |          |           |    |                             | 148        |                 | $\perp$  |         |              |         |              |                 |                 |  |
| Ţ |                 | 49            | ļ.                 |              |          | <u> </u> |          |              |              |          |           |                 |          | 99                         | $\Box$   |         |                     |          |          |            | $\Box$   | $\Box$    |    |                             | 149        | П               | T        | Ţ       | Ţ            | $\Box$  | F            | П               | Щ               |  |
| Į |                 | 50            | 1                  | L_           | <u> </u> | l        | L.,      | L            | <u>L</u>     | <u> </u> |           | Jiiii           | L        | 100                        | $\perp \perp$  |         | $\perp$             | <u> </u> | <u></u>  |            |          |           |    |                             | 150        |                 |          |         |              | 1_      |              | $\Box$          | <u> </u>        |  |